| ς . | 65 % | | | UTAH DIVISION | OF OIL. GAS | AND MIN | IING | · | |
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| REMARKS: | WELL L | G EL | ECTRIC LOGS | FILE X WATE | R SANDS | _ LOCATIO | N INSPECT | rED S | UB. REPORT/ABD |
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| LAND: FEI | | | STATE LEASE | : NO. | PUBLIC LEA | SE NO. U- | 130-28 | INDIAN | |
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| FIELD: W | ildcat | 3/86 | | | | | | • | |
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| COUNTY: | | | | | | | | | |
| WELL NO. | | | r Fed. 4-3 | <u>l</u> | | | API NO | e: 43-037-304 | 35 |
| LOCATION | 4! | <u> </u> | FT. FROM (N) X | () LINE. 836 | FT. FROM | XX (W) LI | NE. N | W NW 14- | ¼ SEC. 31 |
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| TWP. | RGE. | SEC. | OPERATOR | | TWP. | RGE. | SEC. | OPERATOR | |
| ÷. | | | | | , | | | | · · · · · · · · · · · · · · · · · · · |
| 29\$ | 24E | 31 | HUSKY OLI | COMPANY | | | | | |

Location Abandoned-12/08/78

Checked by Chief ntered in NID Mile Approval Letter cation Map Pinned Disapproval Letter ard Indexed COMPLETION DATA: Location Inspected Thate Well Completed Bond released W WW. . . . TA State or Fee Land Driller's Log. ... Electric Logs (No.) E..... I..... Dual I Lat..... GR-N..... Micro.... BHC Sonic GR..... Lat..... Mi-L.... Sonic..... CBLog..... CCLog..... Others..

Lwf 205-91

STATE OF UTAH
DEPARTMENT OF NATURAL RESOLUTION OF OIL & GAS

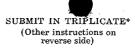
SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

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|----|-------|------|------|-----|-----|--------|-----|
| 5. | Lease | Desi | gnat | ion | and | Serial | No. |

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| APPLICATION | FOR PERMIT TO | DRILL DEEPER | MOR PLOSE B | ACK 6. If Indian, Allottee or Tri | be Name |
| la. Type of Work | | - CA CINE | | 7. Unit Agreement Name | |
| DRILL | [X] D | EEPEN 🗆 | COO'G BAC | .K ! 1 | ~ امل |
| b. Type of Well Oil Gas | ľΣ | 15 | Single Multi | Ple 8. Farm or Lease Name | ager |
| Oil Gas Well Well 2. Name of Operator | LΔI Other | | Zone Zone | Federal | A STATE OF THE STA |
| · · | 041 Command | | | 9. Well No. | |
| 3. Address of Operator | Oil Company | | | | and the |
| 600 \$6 | with Champy Ch | | | 4-37 10. Field and Pool, or Wildea | it |
| 4. Location of Well (Report | location clearly and in acco | reet, Denver | Colorado | | |
| 110 Barrace | | | | Wildcat 11. Sec., T., R., M., or Blk. | |
| 459 FNL a | and 836' FWL, | NW 1/4 NW 1/ | 4, Sec. 31- | 24F-295 and Survey or Area | — |
| | | | | Sec. 31-24E | -295 |
| Same botto | rection, from nearest town o | r post office* | e rocation | 12. County or Parrish 13. | |
| Approximate 1 15. Distance from proposed* | v 12 miles so | uthwest of 1 | 2521 11+26 | San Juan U | tah |
| 15. Distance from proposed* location to nearest | | 16. No. | of acres in lease | 17. No. of acres assigned | <u></u> |
| property or lease line, ft (Also to nearest drlg, line | 459' (F | NL) 8 | 353.04 | to this well 206.26 | |
| 18. Distance from proposed to nearest well, drilling, | loantion 2 | 19. Prop | osed depth | 20. Rotary or cable tools | |
| or applied for, on this lea | ase, 1t. 1000 | g · | 900 | Patany | |
| 21. Elevations (Show whether | _ | | | Rotary 22. Approx. date work will | start* |
| | iraded (6204.3 | K.B.) | | September | 1, 19 |
| 23. | PRO | POSED CASING AND | EMENTING PROGRAM | | |
| Size of Hole | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement | |
| 17 1/2" | 13 3/8" Ne | | | Sufficient to | |
| 12 1/4" | 9 5/8" Ne | | | 100 Sacks | CIFCUL |
| | <u> </u> | and 40#/F | | TOO SACKS | |
| 8 1/2" | 7" New | 26#/Ft. | +9900' | 100 Sacks | |
| | | 32#/Ft, | | .00 04013 | |
| | | and 35#/F | t. | | |
| | | | | | |
| | | | | | |
| Drill 1/ | 1/2" hole to | <u>+</u> 1500'. Run | and cement | 13 3/8" casing. D | rill |
| out with | 12 1/4" bit to | o +5500° (Pa | radox Salt). | Run and cement 9 | 5/8" |
| casing. | urill out with | n 8 172" bit | to +9900 * | log and avaluate | hala |
| Run and c | ement /" prod | uction casin | g if warran | ted by log evaluati | on. |
| il evalua | riou zuomz me | ii to be non | -commercial | , it will be plugge | dand |
| abandoned | in accordance | e with U.S.G | .S. regulate | ROWED BY THE DIVISION | OF |
| | | | OIL, | GAS, AND MINING | |
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| the American control management | | | RY. | 16 Just | |
| IN ABOVE SPACE DESCRI ductive zone. If proposal is | to drill or deepen directiona | : If proposal is to deepe lly, give pertinent data | en or plug back, g we-k a on subsurface locations a | and measured and true vertical depths. | sed new pro- |
| preventer program, if any. | | | | or de Volgotti ticprins: | orre morrede |
| 24. | at 12-4 | | | | |
| Signed C-Z/ | Wolt | Title Dri | lling Engine | eer Date 4-25- | 7.8 |
| (This space for Federal or | r State office use) | | | | |
| 122 | 097-30436 | 3 | | | |
| Permit No. | 121 36150 | Ap | proval Date | | |
| . | | | | | |
| Approved byConditions of approval, if | | Title | | Date | |
| | • | | | | |

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS



U-130-28

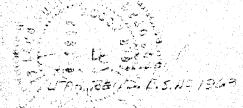
5. Lease Designation and Serial No.

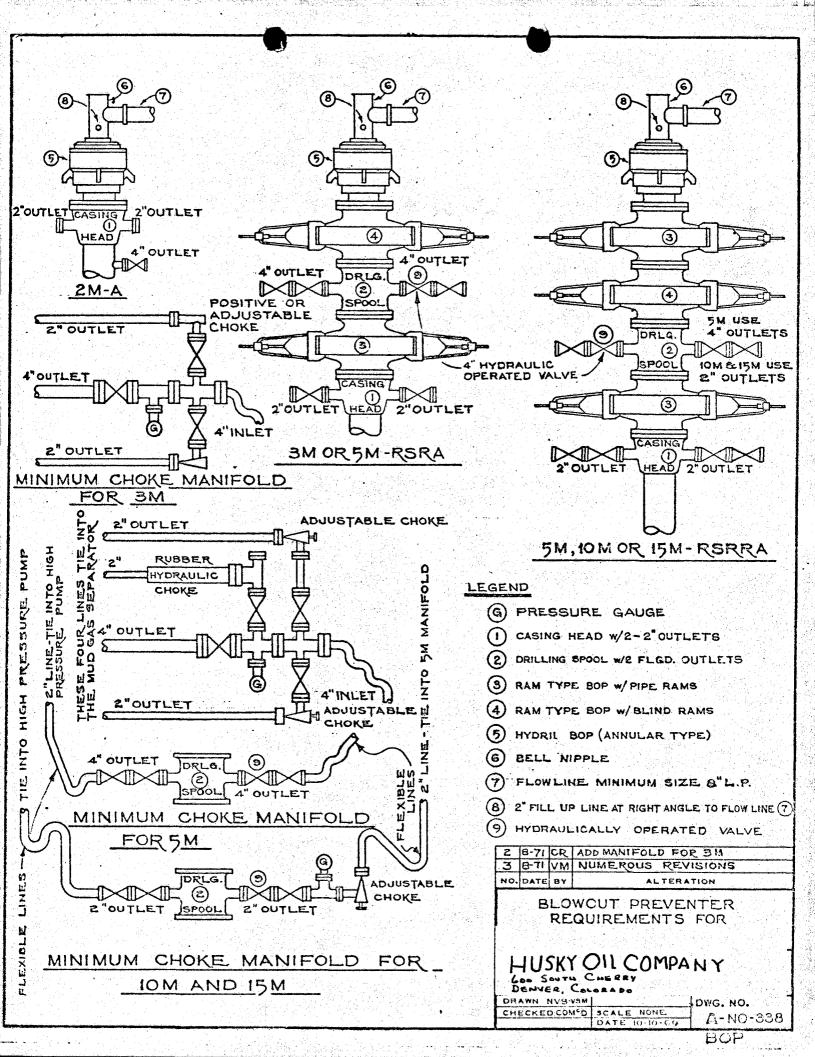
| APPLICATION F | OR PERMIT TO I | ORILL, DEEPEN | I, OR PLUG BACK | 6. If Indian, Allottee or Tribe Name |
|---|-------------------------------|---------------------------------------|--|--|
| a. Type of Work DRILL [| <u> </u> | PEN [] | PLUG BACK □ | 7. Unit Agreement Name |
| b. Type of Well | | | | Hook and Ladder |
| Oil Gas Well Well | Other | | Single Multiple Zone Zone | 8. Farm or Lease Name |
| . Name of Operator | | | | Federal 9. Well No. |
| HUSKY Address of Operator | Oil Company | · · · · · · · · · · · · · · · · · · · | | |
| - | | | | 4-31 10. Field and Pool, or Wildcat |
| 600 So Location of Well (Report le | Wildcat | | | |
| At surface | · | | | 11 Sec T R M or RIk |
| At proposed prod. zone | nd 836' FWL, N | W 1/4 NW 1/ | 4, Sec. 31-24E | -29S and Survey or Area |
| | n hole locatio | n as surfac | e location | Sec. 31-24E-29S |
| 1. Distance in miles and dire | ction from nearest town or | ost office* | | 12. County or Parrish 13. State |
| Approximately | / 12 miles sou | thwest of L | aSal, Utah | San Juan Utah |
| location to nearest | | | to | this well |
| property or lease line, ft. (Also to nearest drlg. line, | if any) 459' (FN | . • | 53.04 osed depth 20. Ro | 206.26 |
| B. Distance from proposed lo to nearest well, drilling, or or applied for, on this leas | ompleted, 1600 | | 900 t | tary or cable tools |
| . Elevations (Show whether) | , | | | Rotary 22. Approx. date work will start* |
| | raded (6204.3 h | K.B.) | | September 1, 1978 |
| • | | | EMENTING PROGRAM | September 1, 1976 |
| G: CIL | - | | EMENTING PROGRAM | |
| Size of Hole | | Veight per Foot | Setting Depth | Quantity of Cement |
| 17 1/2" 12 1/4" | 13 3/8" New | 54.5#/Ft. | <u>+1500 '</u> | Sufficient to circulat |
| 12 1/4 | 9 5/8" New | 36.0 [#] /Ft. | <u>+5500 \</u> | 100 Sacks |
| 8 1/2" | 7" New | and 40#/F 26#/Ft. | +9900' | 100 Spake |
| 0 1/2 | , 11 G M | 32#/Ft. | <u>-</u> 9900 | 100 Sacks |
| | | and $35^{\#}/F$ | t | |
| | * | ana 35 / | • | |
| Drill 17 1 | /2" hole to + | 1500°, Run | and cement 13 | 3/8" casing. Drill |
| out with 1 | 2 1/4" bit to | +5500 (Pa | radox Salt). R | lun and cement 9 5/8" |
| casing | irili out with | 8 1/2" bit | to +9900'. Lo | og and evaluate hole: |
| Kun and ce | ement /" produ | ction casin | q if warranted | by log evaluation |
| ir evaluat | tion snows well | l to be non | -commercial. it | : will be plugged and |
| abandoned | in accordance | with U.S.G | .S. regulations | V THE DIVICION OF |
| | | | | Y THE DIVISION OF |
| | • | | OIL, GAS, A | ND MINING |
| | | | DATE: 5 | -4-78 |
| AROVE SPACE DESCRIP | F DBODOSED DBOCDAM. | T.C | | 1 -/ |
| ctive zone. If proposal is to | drill or deepen directionally | , give pertinent data o | n or plug back, give data of p on subsurface locations to the | resent productive fore and proposed new pro- |
| eventer program, if any. | | · | | |
| A 11 | at Ot | ÷ | | |
| Signed L-ZJ | Coll | Title Dri | lling Engineer | Date 4-25-78 |
| (This space for Federal or | State office use) | | | |
| / · | | | | |
| rermit No | | App | proval Date | |
| Annroyed by | | 777.7 | | |
| Conditions of approval, if | inv: | Title | | Date |

WELL LOCATION FLAT EMECOL BELLES A FOUND "+" IN ROCK R 24 E RZSE WEST 60=7 (RELL) (CALC) 2 CE HUSKY FED. 431 O.G. ELEV. 6189 2 3 29 . 5 77616 605313 (2563)

ELEVATIONS BY VERTICALANGLES 603
FROM U.S.G. STEES, MAR.
"LASAL JUNCTION. UTAH" 1954 (24 = 6460)

PLAT OF MUSICY FEDERAL 4-31
IN LOTI, SECTION 31, TEXT, SELYES LEAR
SAN JUAN COUNTY, UTAM.
FOR! HUSKY OIL CO.
SCALE-1"=1000' MARSH 1498
TRANSIT & LISTANCE METER SYLVEY





1. Existing Roads

- A. See attachments, Exhibits "A", "B", and "E"
- B. Main Roads:

To reach Husky well location 4-31 in the northwest corner of Section 31, Township 24 East, Range 29 South, proceed south from Moab Town, Utah, on U. S. Highway 163 for 22 miles; exit to the east on Utah State Highway 46 and proceed five miles toward La Sal Town, Utah. Exit south on blacktop unmarked county road, locally referred to as the Lisbon Valley Road. Proceed south two miles. Exit off blacktop road to the right (west) on a dirt road. (Gulf well marker). Proceed down this road 2.2 miles at which point the road forks. Take the left fork and proceed approximately 1.5 miles. The proposed access road is flagged on the left side of the road at this point. (See Exhibits "A", "B", and "E" depicting access road and location).

2. Planned Access Roads, Exhibit "E"

- A. Width: + 16' (maximum)
- B. Maximum Grades: overall road grade 4%
- C. Turnouts: none
- D. Drainage Design: none required
- E. Location and size of culverts: none fill + 3'
- F. Surface material: sand and clay
- G. Necessary gates: none
- H. Center line flagging presently center line flagged and surveyed (see Exhibit "E")
- 3. Location of Existing Wells, Exhibit "B"

There are no known wells within the NW/4 of the NW/4 of Section 31-24E-29S. There are three (3) known well locations within a two (2) mile radius of the above-designated location. One well, Gulf #1 Chevron, a producing oil well, is 1.45 miles northwest by west. The second, Husky 15-25 Federal, is located one-half mile northwest. The third, Kimbarr #1 Gulf State, is located 1.9 miles southwest. All distances are given from the proposed location of the Husky 4-31 Federal.

- 4. Location of Existing and/or Proposed Facilities
 - A. There are no facilities owned or controlled by the lessee/operator within a one-mile radius from the aforementioned proposed location.

 NOTE: The word facilities as used in the context of the above and subsequent paragraphs denotes the following:

- 1. Tank batteries
- 2. Production facilities
- 3. Oil gathering lines
- 4. Gas gathering lines
- 5. Injection lines
- 6. Disposal lines
- B. New Facilities Contemplated in the Event of Production (See Production Layout Exhibit "C")
 - 1 4: The production facilities (proposed) are shown on an attachment. It will be installed on the drilling location adjacent to the access road, to be constructed, to minimize surface disturbance. The battery facilities will be approximately 50' x 100', fenced to protect livestock and wildlife and will be constructed of soil material at the site. The proposed pit will be approximately 25' x 25' and will be in compliance with U.S.G.S. NTL-2B specifications.

Any necessary completion equipment on location site will be removed upon completion of the well. At this point in time, it is planned to transport any future production via pipeline to gas line tie-in.

C. Plan for Rehabilitation of Disturbed Areas No Longer Needed for Operation after Construction is Completed (See Exhibit "C" and Section 10)

> The reserve pit and other areas no longer needed for operation will be rehabilitated by seeding the areas, after leveling, with designated range grass when moisture content of the soil is adequate to insure germination. (As per BLM Area Representative)

5. Location and Type of Water Supply

The water used to drill this well will be hauled by truck from a private source. The trucks will utilize the proposed location access road as depicted in Exhibit "B" and "E".

6. Source of Construction Materials

A, B, C, and D: For the drilling operation it is not anticipated that any construction materials will be needed; however, should they be needed, they will be purchased from a commercial source.

- 7. Methods of Handling Waste Material Disposal
 - A. Cuttings: To be disposed of in the reserve pit and buried.
 - B. Drilling Fluids: To be disposed of in the reserve pit and buried after the pit has dried.
 - C. Produced Fluids: Such liquids shall be produced into tanks.
 - D. Sewage: Portable toilets
 - E. Garbage and Other Water Material: Disposal in a "burn" pit, enclosed on four sides and top with a wire mesh screen, ultimately buried. See Exhibit "D".
 - F. The access road will be patrolled daily for trash pick-up that will be disposed of under item 7-E.
 - G. The location will be cleaned upon completion of the well. All pits will be fenced. After the reserve pit has dried, the pits will be filled, waste buried, and restoration done as per Section 10.
- 8. Location of Camps and Ancillary Facilities

None

- 9. Well Site Layout (See Exhibit "D")
 - A, B, and C: See attached plats
 C. The pits will be lined to prevent seepage.
- 10. Plans for Restoration of the Surface

After the drilling and completion operations have ceased, the mud pits will be fenced and allowed to dry. After the pit has dried out (several weeks), the fence will be removed. It will be filled in and leveled to conform with the topography of the land. At this time, the trash pit will also be backfilled and leveled. The remainder of the well site, in addition to the above-mentioned pits, will be seeded with a designated range grass when the moisture content of the soil is adequate to insure seed germination. The proper range grass and information as to adequate moisture content of the soil will be furnished by the Area BLM Representative.

11. Other Information

A. The location area is situated in the upper portion of the erosion zone where a plateau area terminates. The terrain is very broken and rugged with deep gullies and vertical cliffs. Numerous drainages, intermittent in nature, drain into Hook and Ladder Gulch, which in turn drain into intermittent Cane Creek. The location is to be built on a fairly level outcrop of Navajo sandstone, sparsely vegetated with pine trees, low desert shrubs, and grasses. The area supports minimal wildlife, small reptiles, rodents, mammals, and birds.

- B. The primary use of the land is range land and is owned by the BLM
- C. Only intermittent streams are in the area. There are no known occupied dwellings, historical, or cultural sites in the immediate area.
- 12. Lessee's or Operator's Representative:

C. H. Walter 600 South Cherry Street Denver, Colorado 80222 303/320-4040

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Husky Oil Company and its contractors and subcontractors in conformity with this plan and conditions under which it is approved.

4/24/18 Date

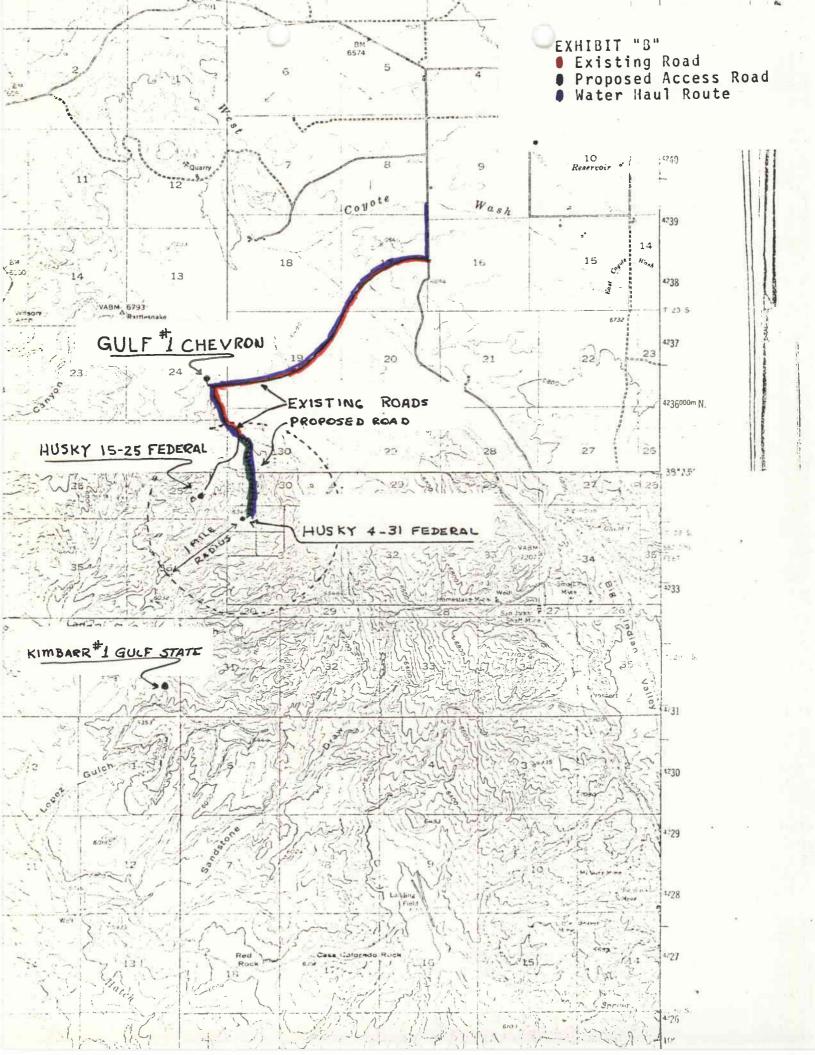
Drilling Engineer
Husky Oil Company

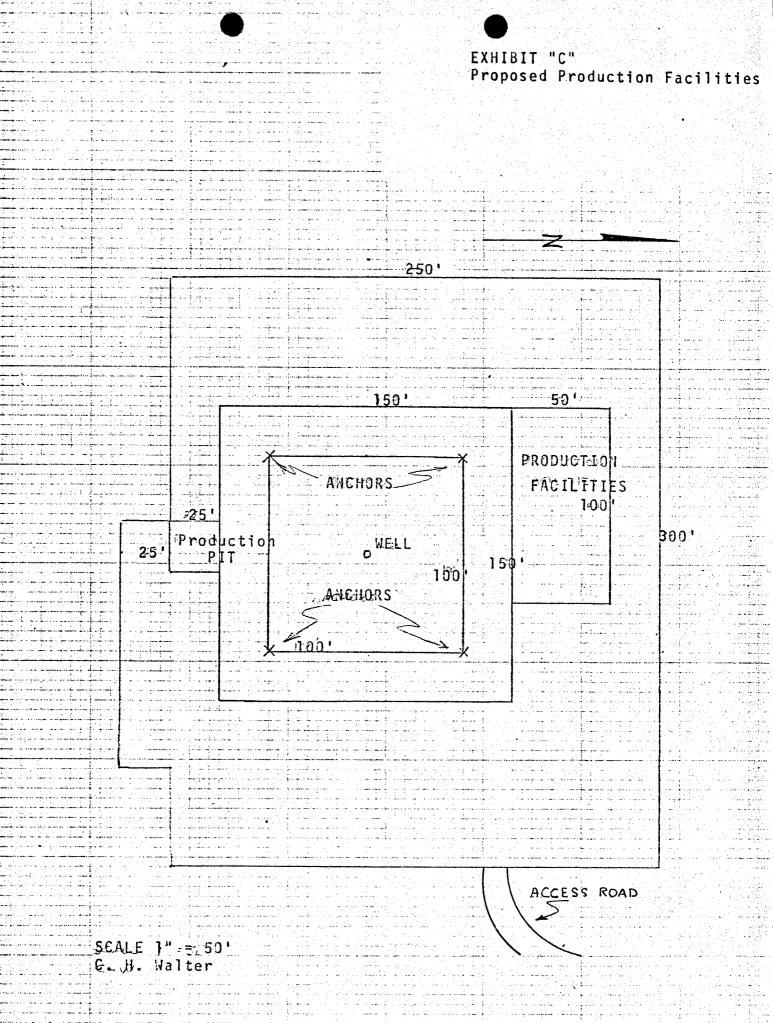
EXHIBITS

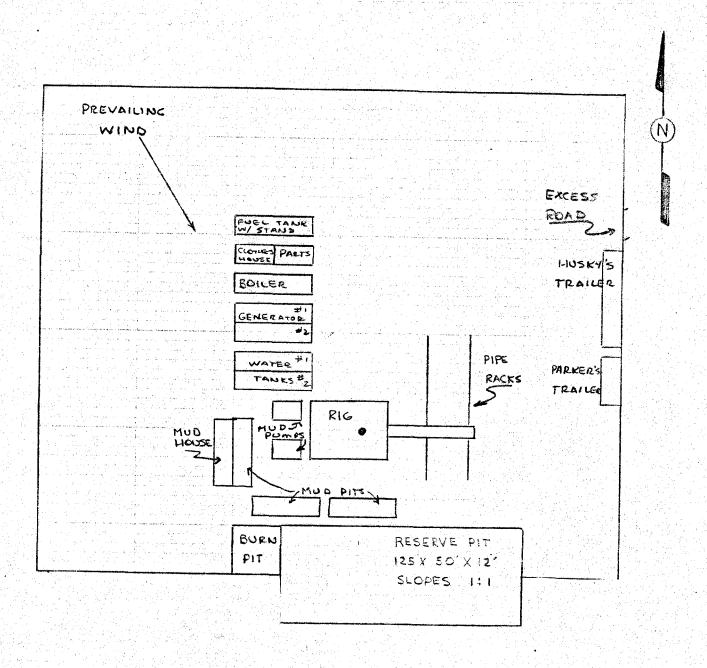
A. Map with route marked

- B. 7.5 minute topographic map section showing access roads, location, culvert placement and water haul route
- C. Proposed production facilities
- D. Location layout with burn pit
- E. Topographic sketch of location
- F. Cross section of location showing cuts and fills
- G. Stimulation Schematic
- H. Access Road Survey
- I. Closed Mud System Plan









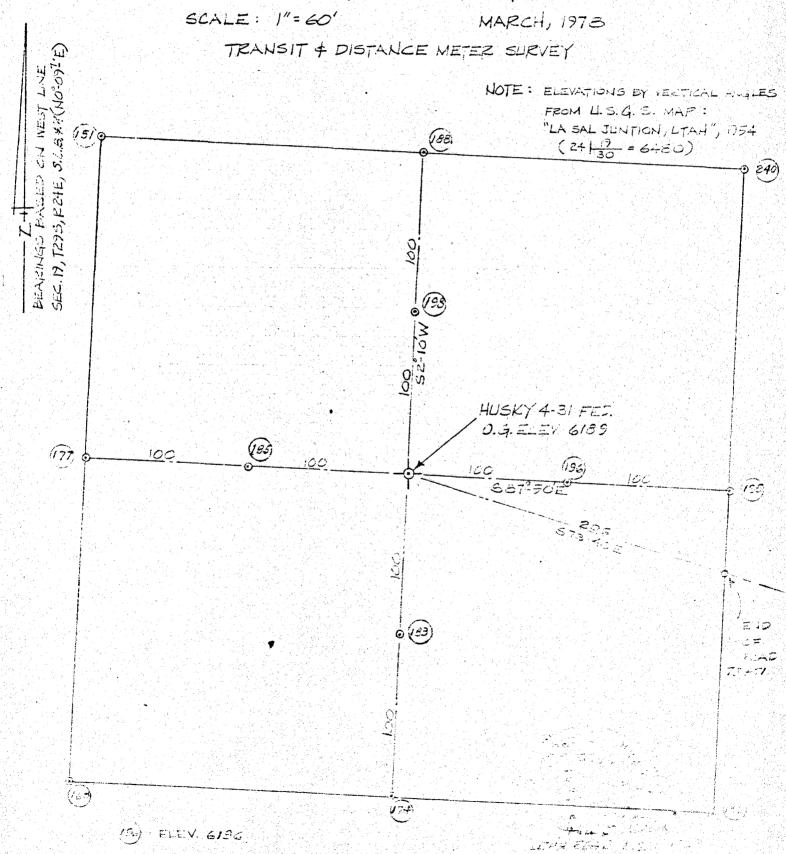
SCALE : 1" = 50"

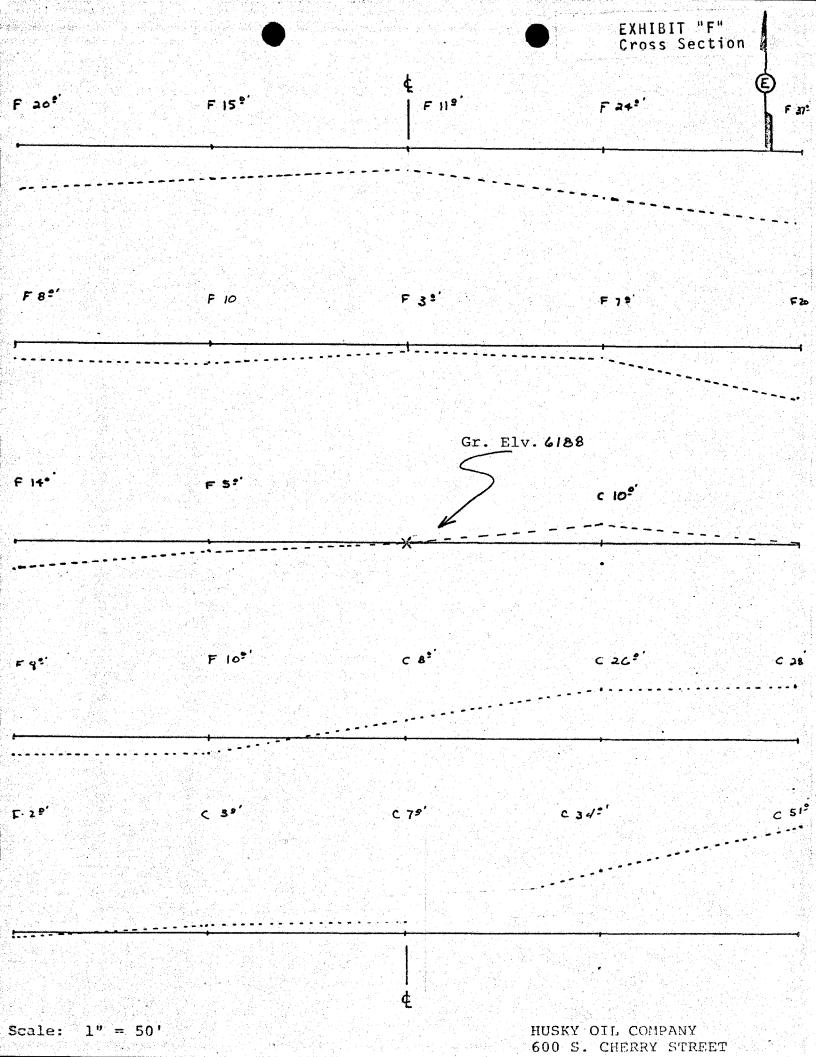
PLAT OF HUSKY FEDERAL 4-31 WELL SITE

IN LOT 1, SEC 31, T295, R24 E

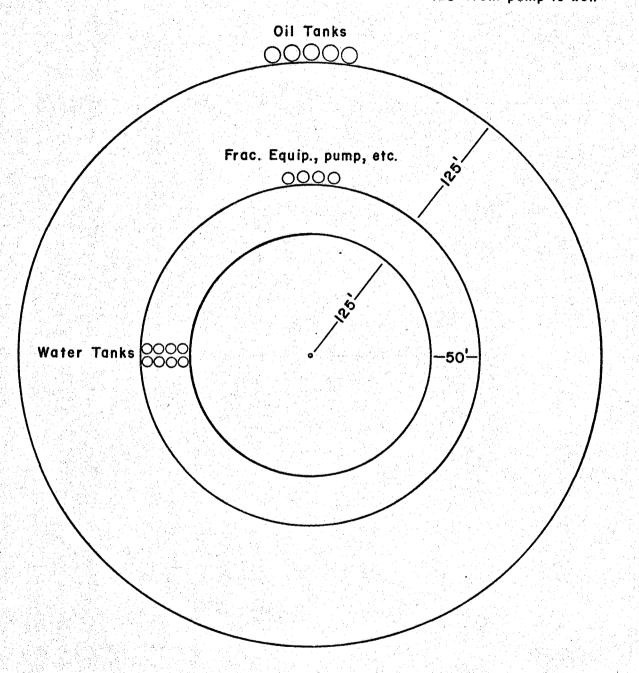
SAH JUAN COUNTY, UTAH

FOR: HUSKY OIL COMPANY





125' from flammable storage to source of ignition 125' from pump to well



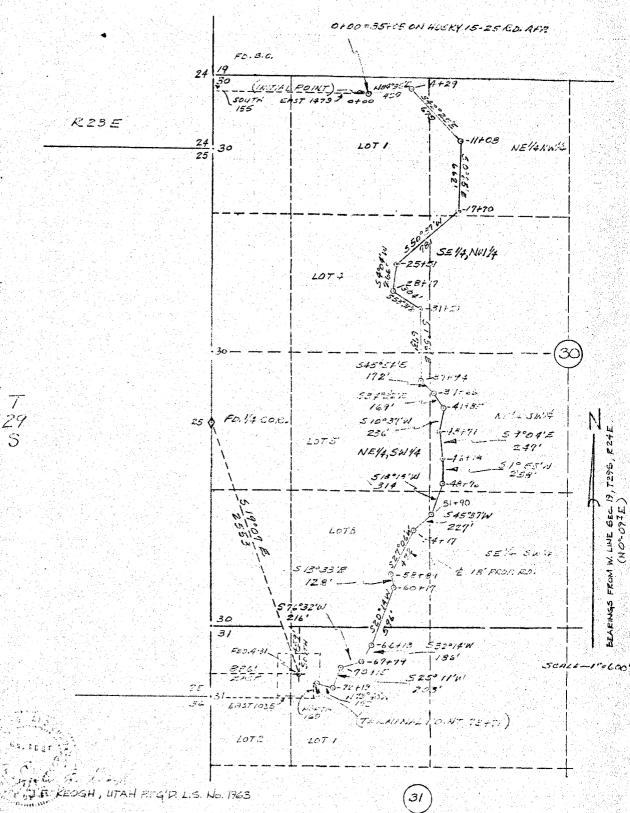
MAP OF PROPOSED WELL SITE AND ACCESS ROAD

HUSKY 4-31 FED.

IN LOT 1, SEC. 31, T295, RETE, SIBEM SAN WAN COUNTY, WIAH

SCALE: 1"= 600' MARCH, 1978

TRANSIT + DISTANCE METER SURVEY



RZ4E

PLANNED "CLOSED" MUD SYSTEM HUSKY 4-31 FEDERAL

In the interest of pollution protection and economics (rehabilitation costs-drilling costs), Husky Oil Company is proposing to run a closed mud system on the above-captioned well. This report presents a guideline that Husky Oil Company is planning to adopt on the Husky 4-31 Federal in San Juan County, Utah.

In the past, solids removal equipment discarded soils into the reserve pit along with some liquid phase of the drilling fluid. From time to time the pits were dumped to clean solids build-up from the bottom of the mud pits. The discarded solids and liquids have in the past presented problems for rehabilitation of the site, not to mention the time before rehabilitation can commence.

The closed system is designed to retain the liquid phase and discard damp solids into the reserve pit.

The following four (4) point plan describes in detail the step-by-step plan of a closed system.

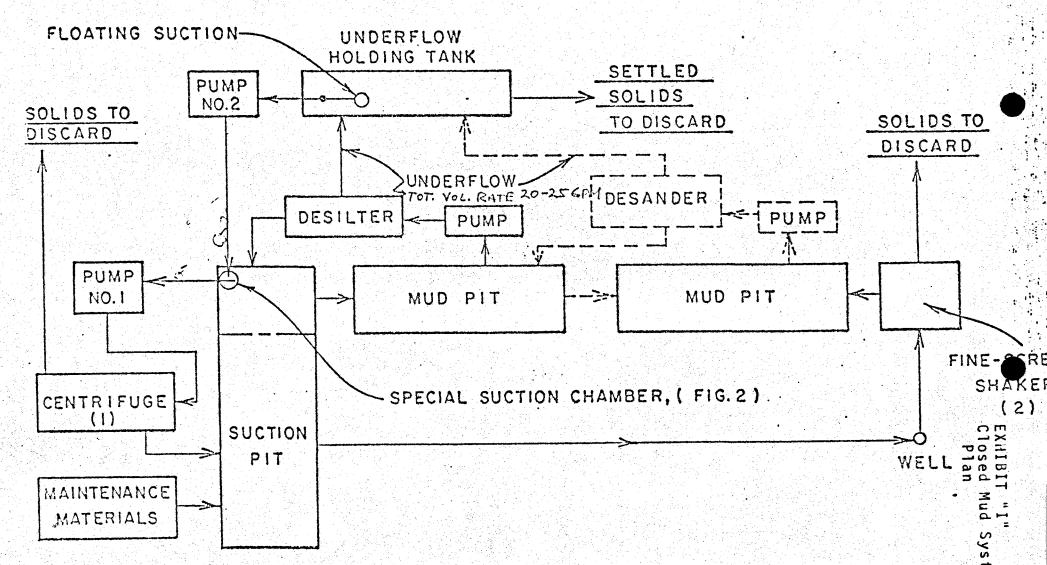
EXHIBIT "I"
Sed Mud System Plan

- 1. Preferably, replace the desander and conventional shale shaker with a fine screen shaker; otherwise, use a conventional shaker, desander, and desilter in the normal operating mode.
- 2. Run the underflow from the desilter (and desander) into a holding tank or pit equipped with a floating suction and with facilities for periodically cleaning out settled coarse solids. If a surface pit is to be used, it can be bulldozed over when filled with sediment and a new pit dug.
- Install a decanting centrifuge with two feed pumps. 3. Pump No. 1 draws mud from the active system (through a special suction chamber) downstream from the desilter, and feeds the centrifuge at its maximum process rate. Pump No. 2 draws liquid from near the surface (floating suction) of the holding tank and feeds into the bottom of the special suction chamber for Pump No. 1. The flow rate from Pump No. 2 must be higher than the rate of underflow liquid from the desilter into the holding tank, but always less than the rate of Pump No. 1. A liquid level "switch" at the holding tank could start and stop Pump No. 2 in respond to supply of liquid; thus, the whole system would operate automatically. The centrifuge underflow, consisting of moist solids, is discarded, and the clean mud returned to the active mud system at a point downstream from the No. 2 pump suction.

4. Make-up water and chemical are added in amounts necessary to maintain the necessary volume and required mud properties.

Note that the only materials removed from the mud system are moist solids at the shale shaker and at the decanting centrifuge, plus sediment removed by period cleaning of the holding tank.

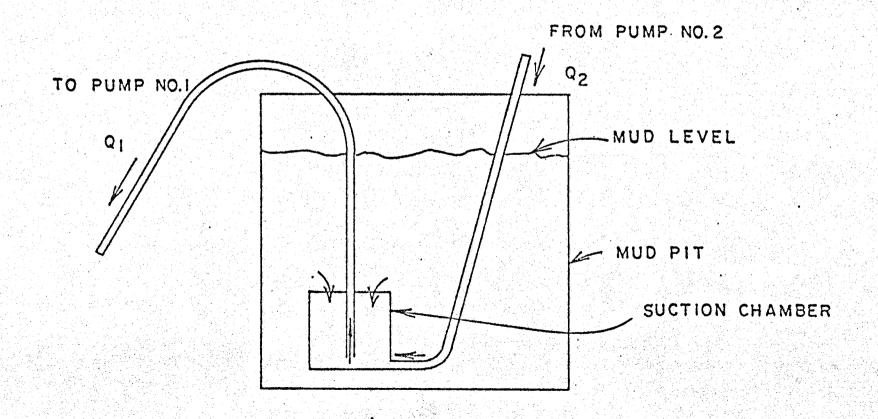
FIGURE I A CLOSED SYSTEM FOR PROCESSING NON-WEIGHTED DRILLING MUDS



- (1) BIRD-TYPE CENTRIFUGE, AS SUPPLIED BY (a) PIONEER OR (b) BAROLD
 - 2) FINE-SCREEN SHAKER, AS SUPPLIED BY (a) MUD SEPARATORS, INC. OR (b)
 DRESSER MAGCOBAR

FIGURE 2 SPECIAL SUCTION CHAMBER

Q2> Q2



Q2 MUST BE LESS THAN Q1

| , | ** FILE | NOTATIONS ** | |
|---------------------------------|---|---|---|
| Date: Ma | 1, 1978 | | |
| Operator: | Husky O. | 1 C. | |
| Well No: | Hk + Lad | der 4-8/ | |
| Location: <u>Sec.</u> | 31 T. 295 R. 24 | E County: San Tran | |
| | | and any one one can can any may use | |
| File Prepared: Card Indexed: | | Entered on N.I.D.: // Completion Sheet: // | |
| | API NUMBER: 4 | | |
| CHECKED BY: | | de la control t | 1 |
| Adminis | strative Assistant | and and | |
| Rema | arks: Middle 1 | Dosest von 2 miles 18 1/2 dest-ce | |
| | eum Engineer | Dosest to 2 mi | |
| | irks: | 1/2 | |
| Directo | | 18 / destace | |
| | Approvat 1 stren | | |
| | APPROVAL LETTER: | | |
| | equired: | Survey Plat Required: | |
| Order N | Vo. | Surface Casing Change // to | |
| Rule C- | -3(c), Topographic exceptio within a 660' radius | on/company owns or controls acreage sof proposed sote | |
| O.K. R | Rule C-3 | O.K. In Jack + Leld Unit [] | |
| • Other: | | | |
| | Lett | ter Written/Approved | |



Federal Building 701 Camino del Rio Durango, Colorado 81301

December 27, 1978

Husky Oil Company 600 South Cherry Street Denver, Colorado 80222

Gentlemen:

By telephone, Larry Diede advised this office that Husky would not drill Well No. 4-31 Federal, located in the NWANWA section 31, T. 29 S., R. 24 E., S.L.M., San Juan County, Utah, on Federal oil and gas lease U-13028.

Application for Permit to Drill has not been approved and access road or well pad construction had not commenced.

Application for Permit to Drill is cancelled this date and is returned herewith unapproved. If at some later date you decide to drill this well, it will be necessary to file a new application.

Sincerely yours,

(Orig. Sgd.) C. A. BARRICK Carl A. Barrick Acting District Engineer

Enclosure

cc: BLM Moab

Utah Div. of Oil, Gas & Mining